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- 1 [Information technology and information goods as predictors of organizational expansion activity](#)

Virginia Franke Kleist, Irene Hanson Frieze, William R. King

 December 2000 **Proceedings of the twenty first international conference on Information systems**

Full text available: pdf (64.92 KB)

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- 2 [A quadratic-tensor model algorithm for nonlinear least-squares problems with linear constraints](#)

R. J. Hanson, Fred T. Krogh

June 1992 **ACM Transactions on Mathematical Software (TOMS)**, Volume 18 Issue 2

Full text available: pdf (1.14 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

A new algorithm is presented for solving nonlinear least-squares and nonlinear equation problems. The algorithm is based on approximating the nonlinear functions using the quadratic-tensor model proposed by Schnabel and Frank. The problem statement may include simple bounds or more general linear constraints on the unknowns. The algorithm uses a trust-region defined by a box containing the current values of the unknowns. The objective function (Euclidean length of the functions) is allowed ...

**Keywords:** constrained least squares, nonlinear least-squares

- 3 [Interface design and multivariate analysis of UNIX command use](#)

Stephen José Hanson, Robert E. Kraut, James M. Farber

January 1984 **ACM Transactions on Information Systems (TOIS)**, Volume 2 Issue 1

Full text available: pdf (983.48 KB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 4 [Programmer perceptions of productivity and programming tools](#)

Stephen José Hanson, Richard R. Rosinski

February 1985 **Communications of the ACM**, Volume 28 Issue 2

Full text available: pdf (1.51 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Psychometric scaling methods are applied to programmer productivity assessments of 20 tools to recommend a set of minimal, as well as more comprehensive, tools.



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### 1 [Perspectives on Project Athena](#)

Ronald L. Orcutt, Earll M. Murman

 August 1990 **Proceedings of the 18th annual ACM SIGUCCS conference on User services**

 Full text available: [pdf\(1.32 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An overview of the evolution and current status of MIT's Project Athena is presented. Athena's distributed workstation computing system is described, and its attributes of coherence and ubiquity are critiqued. A summary is given of Athena's 125 curriculum development experiments including their diverse nature, the challenges of courseware development and delivery, and indications of effectiveness. Athena is described from a student's viewpoint. Finally, various lessons learned from running ...

### 2 [Blueprint for the future of high-performance networking: Data-intensive e-science frontier research](#)

Harvey B. Newman, Mark H. Ellisman, John A. Orcutt

 November 2003 **Communications of the ACM**, Volume 46 Issue 11

 Full text available: [pdf\(648.86 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
[html\(36.07 KB\)](#)

Large-scale e-science, including high-energy and nuclear physics, biomedical informatics, and Earth science, depend on an increasingly integrated, distributed cyberinfrastructure serving virtual organizations on a global scale.

### 3 [Implementation of Ray tracing on the hypercube](#)

D. E. Orcutt

 January 1989 **Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2**

 Full text available: [pdf\(292.52 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This preliminary report presents one implementation of a ray tracing system. The ray tracing system was divided and distributed onto the hypercube based on the data to be processed. The implementation which includes a dynamic load balancing scheme will be shown to be very efficient for large scenes.

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### 1 [Political redistricting by computer](#)

Robert E. Helbig, Patrick K. Orr, Robert R. Roediger

August 1972 **Communications of the ACM**, Volume 15 Issue 8Full text available: [pdf\(610.25 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The problems of political redistricting are considered and a computer method for redistricting is presented. Criteria for acceptable redistricting are discussed, including population equality, compactness, contiguity, and preservation of natural and/or political boundaries. Only nonpartisan criteria are considered. Using 1970 Bureau of Census population data, specific results are given for the ten Congressional Districts in the state of Missouri and for the seven St. Louis County Council se ...

**Keywords:** compactness, contiguity, equal population, legislative districts, political redistricting, population units, reapportionment, transportation algorithm

### 2 [SPAID: software prefetching in pointer- and call-intensive environments](#)

Mikko H. Lipasti, William J. Schmidt, Steven R. Kunkel, Robert R. Roediger

December 1995 **Proceedings of the 28th annual international symposium on Microarchitecture**Full text available: [pdf\(631.12 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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